HD32127
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Small and light weight rack mounted chassis
Class AB linear GaN hybrid design
X-Band medium power pulse applications
Built-in protection circuits
Universal voltage AC power supply
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes	
Operating Frequency Range	9.1 - 9.5 GHz				
Power Output@ Peak Pulse	200 Watt Min			Peak pulse	
Pulse Characteristics	**Width**	**Duty**	**PRF**	**Droop**	**Rise/Fall**
	1 - 65 µSec	20 %	5 KHz	<0.8 dB Max	< 75 nS
Power Gain	53 dB Nom				
Operating Input Power	+10 dBm ±Nom				
Max Input Power Protection	+10 dBm			<10 Sec without damage	
Power Gain Flatness	1.0 dB p-p Max				
Gain Variation Over Temp	2.0 dB p-p Max				
Input / Output Return Loss	12 dB Min / 10 dB Min			Relative to 50 Ohm	
Harmonics	-30 dBc Max			At rated Pout	
Spurious	-65 dBc Max			Non-harmonics	
Inter-Pulse Noise Level	-164 dBm Typ / -160 dBm Max			Using pulse gating	
Noise Figure	10 dB Max				
Operating Voltage	100 - 240 VAC			50-60Hz	
Power Consumption	450 Watt Max			At rated Pout	
Load VSWR Protection	5 : 1			At rated Pout for <1 min.	
Muting Speed - Pulse Trigger	2 µS Max			TTL	
Cooling	Built-in forced air				

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	-10 to +55°C	Automatic shutdown
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation
Altitude	20,000 feet Min	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	R3U	Excluding handles
Weight	20 Kg. Max.	
RF Connectors In/Out	SMA (F) / Type N (F)	
AC Power / Interface Connector	MIL-C-26482 / 9-Pin D-Sub	Can be customized
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 RF Output Sample port (SMA F)	

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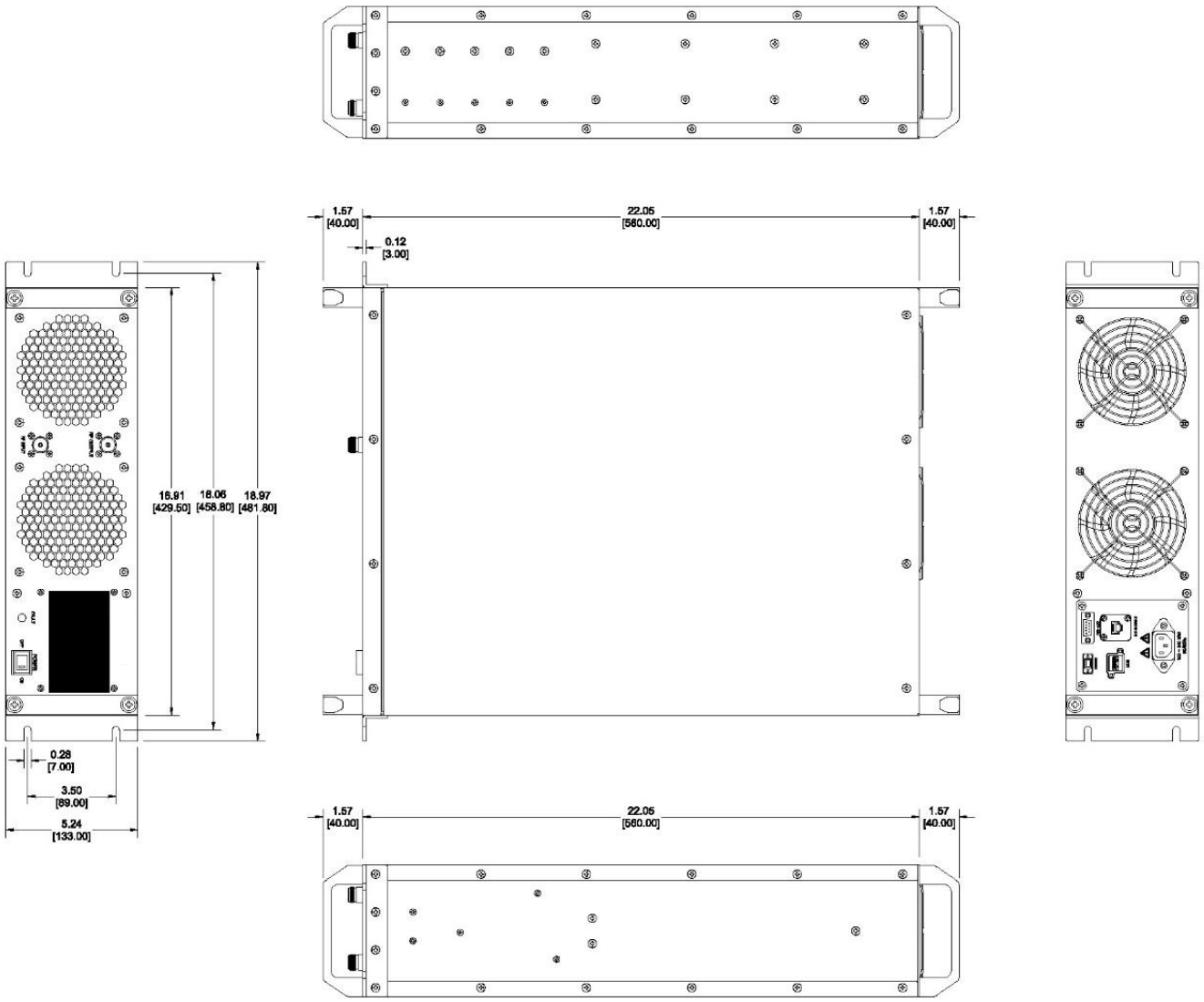
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OUTLINE DRAWING



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